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C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.y U Line Berm Sweep Checklist

C-A-OPM Procedures in which this Attachment is used.		
4.56		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
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Approved: _____ Signature On File _____
 Collider-Accelerator Department Chairman Date

P. Ingrassia

U line Berm Sweep Checklist

Team Leader _____ Operator two _____

Operator three _____

Time: _____ Date: _____

Warning:

To inject into the AGS for FEB operation THEN perform the steps of the Section IV.
If U, or W, or X, or Y lines will operate THEN perform the steps of Section I through III AND
NOT Section IV if a sweep is indicated.

Prerequisites for AtR (U, W, X, Y) line Operations

- Three Shift Operations personnel to perform the sweep
- three (3) CAT 24 keys (one for each sweeper)
- eight (8) CAT 24 padlocks.
- Chains for padlocks
- U line Berm Sweep Checklist C-A-OPM-ATT 4.56.y
- TLD, Alarming (chirping) Self Reading Dosimeter (SRD) and Pencil Type (SRD)

Check

- _____ 1. Padlock (CAT 24) THREE berm gates (below) to prevent access to Section II while sweepers are elsewhere on the berm.
- _____ Dump Gate (east side of W line)
- _____ chain link Gate north of WGE1
- _____ Access Road Gate (east side of U line, north of cooling tower)

Section I (g-2/V Target)

- _____ 2. Three Operators go through south door of building 921 and up stairs to access the berm.
- _____ 3. Three Operators proceed downstream on the top of the berm, through two chain link fence gates until a dead end four foot high fence is reached.
- _____ 4. Team leader and operator #2 stand static watch as operator #3 goes down the berm on the west side and views the downstream dead end for personnel.
- _____ 5. Operator #3 makes visual contact with Team leader.
- _____ 6. Operator #2 goes down the berm on the east side to the fence at street level.

- ____ 7. Three operators sweep upstream. Operator #2 sweeps the area between the berm and substation on the east side.

CONTINUED ON REVERSE SIDE

- ____ 8. Three operators sweep out two chain link gates to the final gate outside the south side of building 921.
____ 9. Team leader applies padlock only to the gate nearest building 921.

Section II (Neutrino Horn and Horn Power Supply House)

- ____ 10. Three operators drive to Access Road Gate (east side of U line, north of cooling tower).
____ 11. Team leader unlocks CAT 24 padlock on gate.
____ 12. Three operators pass through gate.
____ 13. Team leader locks padlock on gate.
____ 14. Three operators go up the berm (road) and then proceed upstream to the dead end fence encountered in step 3 above.
____ 15. Team leader remains atop the center of the berm, operator #2 goes down the berm on the east side while operator #3 goes down the berm on the west side.
____ 16. Three operators sweep downstream towards the horn power supply house.
____ 17. Operator #3 verifies no one is on the shielding blocks on the west side or in the crawl spaces in the blocks.
____ 18. Team Leader and Operator # 2 sweep to double gate upstream of the Horn Power Supply house. Operator # 3 goes to the southwest corner of Horn Power Supply Building.
____ 19. Operator # 3 goes through the break in the fence on the west side to top of berm on west side.

Section III (W line)

- ____ 20. Team leader stands static watch at the entrance to Horn Power Supply house while operator #2 sweeps the house.
____ 21. Operator #2 proceeds to the rear of the house and verifies that no one is in the room where the power cables enter the sleeves.
____ 22. Operator #2 sweeps out the house and rejoins the Team Leader.
____ 23. Operator #2 proceeds downstream on the east side of the berm while operator #3 proceeds downstream on the west side to the substation.
____ 24. Team leader sweeps around the Horn Power Supply house and stops at the downstream (north) end and stands static watch and looks under the Power Supply House.
____ 25. Operator #3 sweeps as far downstream as they can on the west side making sure to search around the concrete blocks atop the U-berm and then follows the fence to the white (pvc) helium pipe atop the W line, making sure to search around the concrete blocks.
____ 26. Operator #2 sweeps as far downstream as they can on the east side and rejoins the Team Leader.
____ 27. Team Leader and Operator #2 sweep downstream and join operator #3 on the W berm.

- ____ 28. Operator #3 proceeds down the west side of the berm while operator #2 proceeds down the east side of the W berm.
- ____ 29. While Team leader sweeps downstream atop the berm (next to the pvc helium pipe) Operators #2, and #3 sweep downstream also on their respective sides.
- ____ 30. Three operators meet atop the beam dump shield at the north end.
- ____ 31. Three operators sweep to the Beam Dump Gate (east side of W line).

CONTINUED ON REVERSE SIDE

- ____ 32. Team leader unlocks padlock on Beam Dump Gate.
- ____ 33. Three Operators sweep out Beam Dump Gate.
- ____ 34. Team Leader re-applies padlock to Beam Dump Gate.
- ____ 35. Team Leader radios OC that sweep is complete.
- ____ 36. Operators return to vehicle parked upstream.
- ____ 37. Team Leader files completed checklist in Completed Sweep Checklist Binder.

U line Berm Sweep Checklist

Team Leader_____ Operator two _____

Operator three_____

Time:_____ Date:_____

Warning:

To inject into AGS for FEB Operation perform the steps of Section IV.

Section IV V line ONLY Operation

Prerequisites for V line ONLY Operation

Three Shift Operations persons to perform the sweep

- one (1) CAT 24 keys
- three (3) CAT 24 padlocks.
- U line Berm Sweep Checklist C-A-OPM-ATT 4.56.y
- TLD, Alarming (chirping) Self Reading Dosimeter (SRD) and Pencil Type (SRD)

Check

- ____ 1. Three operators drive to the transformer yard on the east side of the U line, just downstream (north) of UGE1.
- ____ 2. Operator Three leaves the truck.
- ____ 3. Operator Three searches the transformer yard from outside the fence and stands static watch at the entrance to the substation.
- ____ 4. Team Leader and Operator 2 drive to Building 921 (V line/Siberian Snake power supply house).

- ___5. Team Leader and Operator 2 go through south door of building 921 and up stairs to access the berm. Both operators go through first fence gate, turn left and proceed downstream.
- ___6. Team Leader and Operator 2 proceed downstream on the top of the berm, through the second fence gate, down the wooden stairs and through the third fence gate (upstream of the V target blockhouse).
- ___7. Team Leader and Operator 2 proceeds to the next downstream fence that runs across the berm (behind the cable tray).
- ___8. Team Leader and Operator 2 sweep upstream atop the berm to the third fence gate. Team Leader searches the west side while Operator 2 searches the east side of the berm.

CONTINUED ON REVERSE SIDE

- ___9. Team Leader and Operator 2 sweep through fence gate three.
- ___10. Team Leader padlocks fence gate 3.
- ___11. Team Leader and Operator 2 sweep upstream to fence gate two as they search the west and east side of the berm respectively.

- ___12. Team Leader and Operator 2 go up the wooden stairs and sweep through fence gate two.
- ___13. Team Leader padlocks fence gate two from the upstream side.
- ___14. Both operators sweep upstream to the cable trays at the south end of the enclosure.
- ___15. Team leader stands static watch as Operator two sweeps along the chain link fence starting at the transformer yard and ending at fence gate one.
- ___16. Operator two rejoins Team Leader.
- ___17. Both operators sweep through fence gate one.
- ___18. Team Leader padlocks fence gate one.
- ___19. Team Leader and Operator 2 drive to transformer yard to pick up Operator 3.
- ___21. Team Leader files completed checklist in Completed Sweep Checklist Binder.